

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/529,990	04/24/2000	KENICHI NAKAMA	Q58939	7259	
75	90 11/06/2002				
SUGHRUE MION ZINN MACPEAK & SEAS 2100 PENNSYLVANIA AVENUE NW			EXAMINER		
			CHEVALIER, ALICIA ANN		
WASHINGTO	N, DC 20037		ART UNIT PAPER NUMBER		
			1772	15	
			DATE MAILED: 11/06/2002	DATE MAILED: 11/06/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

				<i>f</i> z				
Office Action Summary		Application N .	plicant(s)					
		09/529,990	NAKAMA ET AL.					
		Examiner	Art Unit					
		Alicia Chevalier	1772	<u> </u>				
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	correspondence address					
THE I - Exter after - If the - If NO - Failur - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communion (35 U.S.C. § 133).	cation.				
1)	Responsive to communication(s) filed on 18 A	Jugust 2002						
2a)□		is action is non-final.						
3)□	<u>, </u>							
Dispositi	closed in accordance with the practice under a on of Claims	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
4)⊠	Claim(s) 1-18 is/are pending in the application							
•	4a) Of the above claim(s) <u>13-16</u> is/are withdraw	n from consideration.						
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-12 and 17-18</u> is/are rejected.							
7)	7) Claim(s) is/are objected to.							
	Claim(s) are subject to restriction and/or	election requirement.						
_	on Papers							
·	The specification is objected to by the Examiner							
10)[1	The drawing(s) filed on is/are: a) accep	· · · · · · · · · · · · · · · · · · ·						
11)[7] 1	Applicant may not request that any objection to the he proposed drawing correction filed on							
,	If approved, corrected drawings are required in rep		ved by the Examiner.					
12) 🔲 7	The oath or declaration is objected to by the Exa	·						
	nder 35 U.S.C. §§ 119 and 120							
•	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).					
			· · · · · · · · · · · · · · · · · · ·					
	1. Certified copies of the priority documents	s have been received.						
	2. Certified copies of the priority documents		on No					
	 Copies of the certified copies of the prior application from the International Bur ee the attached detailed Office action for a list of 	ity documents have been receive eau (PCT Rule 17.2(a)).	ed in this National Stage	!				
	cknowledgment is made of a claim for domestic	·		cation)				
_ a)	☐ The translation of the foreign language pro	visional application has been rec	eived.	sationy.				
15) A	cknowledgment is made of a claim for domestic	c priority under 35 U.S.C. §§ 120	and/or 121.					
	(s) of References Cited (PTO-892)	A) The land of the control of the co	(DTO 442) D==== 11-(-)					
2) Notice	e of Preferences Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)					
S Patent and Ter	44-05							

U.S. Patent and Trademark Offic PTO-326 (Rev. 04-01) Application/Control Number: 09/529,990

Art Unit: 1772

RESPONSE TO AMENDMENT

WITHDRAWN REJECTIONS

- 1. The objections to claim 4-7, 9, 11, and 12 of record in paper #8, page 2, paragraphs #2-4 have been withdrawn due to Applicant's amendment in paper #10.
- 2. The 35 U.S.C. 102/103 rejection of claims 1-12 as anticipated by or over Takematsu et al. (6,207,263) of record in paper #8, pages 4-5, paragraph #8 have been withdrawn due to Applicant's declaration in paper #11.

REJECTIONS REPEATED

- 3. The 35 U.S.C. 102 rejection of claims 1, 2, 4, and 6 as anticipated by Andrus (5,212,596) is repeated for reasons previously of record in paper #8, page 3, paragraph #6.
- 4. The 35 U.S.C. 102/103 rejection of claim 5 as anticipated by or over Andrus (5,212,596) is repeated for reasons previously of record in paper #8, page 4, paragraph #7.

NEW REJECTIONS

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

6. Claims 1-4, 6 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Tomono et al. (5,377,044).

Application/Control Number: 09/529,990

Art Unit: 1772

Tomono discloses a diffraction grating device comprising a transparent protective substrate, an adhesive layer, a silicon oxide layer, a light reflecting film, and a thin relief type resin pattern layer (figure 2). The resin pattern layer is made of a polymerization curing type resin such as a silicone (organopolysiloxane) type resin and has a thickness on the order of 0.1 μ m – 50 μ m (col. 2, lines 55-65). The adhesive layer is preferably a silicone-type (organopolysiloxane) flexible adhesive and can have a thickness of 200 μ m (col. 4, lines 34-36 and col. 7, lines 10-11). The protective substrate may be made of glass (col. 4, line 40). The resin pattern layer comprises grooves (angle) with a depth of 0.12 μ m (col. 6, line 58). As can be seen in figure 2 the light reflecting film conforms to the resin pattern layer. The ratio of thickness of the thickest layer to that of the thinnest layer of the two silicone (organopolysiloxane) layers is 4 to 2000.

Claim Rejections - 35 USC § 102/103

7. Claims 5, 8-10, 11, 17 and 18 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Tomono et al. (5,377,044).

Although Tomono does not explicitly teach the limitations the coefficients of linear expansion of the respective-layers change-gradationally from the substrate toward the outermost layer, the gradationally change in refractive index from the substrate toward the outer most layer, the relationships set forth in claims 9, 10 and 17, or wherein the transmitted light has a wavelength from 380 to 2000 nm, it is reasonable to presume that said limitations are inherent to the invention. Support for said presumption is found in the use of similar materials (i.e. two layers of organopolysiloxane and a transparent glass substrate) used to diffraction grating device.

Art Unit: 1772

The burden is upon the Applicant to prove otherwise. In re Fitzgerald, 205 USPO 594. In the alternative, the claimed coefficient of linear expansion, relationships, and transmitted light would obviously have been provided by the process disclosed by Tomono. Note In re Best, 195 USPO 433, footnote 4 (CCPA 1977) as to the providing of this rejection under 35 USC 103 in addition to the rejection made above under 35 USC 102.

Page 4

Claim Rejections - 35 USC § 103

8. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tomono et al. (5,377,044).

Tomono discloses all the limitations of the instant invention except for the organopolysiloxane layers comprising methyltriethoxysilane or tetraethoxysilane. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use either methyltriethoxysilane or tetraethoxysilane, since it have been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416. One of ordinary skill in the art would be able to recognize ability to use different organopolysiloxane, absent unexpected results. -----

ANSWERS TO APPLICANT'S ARGUMENTS

9. Applicant's arguments filed in paper #10 regarding the election/restriction requirement of record have been considered but are moot since the issue has already been addressed in the petition decision of record in paper #14, mailed September 30, 2002.

Application/Control Number: 09/529,990

Art Unit: 1772

10. Applicant's arguments filed in paper #10 regarding the objections to the claims of record have been considered but are most since the objections have been withdrawn.

While the Examiner maintains that the phrase "wherein in" is grammatically incorrect, it does not render the claim indefinite. Therefore, the objection is withdrawn.

11. Applicant's arguments filed in paper #10 regarding the Andrus (5,212,596) reference of record have been carefully considered but are deemed unpersuasive.

Applicant argues that a distinction between the present invention and Andrus is the recitation in present claim 1 that the projections have a dispersion of height of 1 µm or less. A disclosure in the prior art which is within the claimed range anticipates the range, i.e. forming concave and convex shapes of 50 µm or less (col. 6, line 59 to col. 7, line 11).

Applicant further argues that they do not *believe* that such a formation method will not produce a surface which satisfies the requirement of claim 1. Attorney's argument is not evidence unless it is an admission, in which case, an examiner may use the admission in making a rejection. See MPEP § 2129 and § 2144.03 for a discussion of admissions as prior art. The arguments of counsel cannot take the place of evidence in the record. *In re Schulze*, 346 F.2d 600, 602, 145 USPQ 716, 718 (CCPA 1965); *In re Geisler*, 116 F.3d 1465, 43 USPQ2d 1362 (Fed. Cir. 1997) ("An assertion of what seems to follow from common experience is just attorney argument and not the kind of factual evidence that is required to rebut a prima facie case of obviousness."). See MPEP § 716.01(c) for examples of attorney statements which are not evidence and which must be supported by an appropriate affidavit or declaration.

12. Applicant's arguments filed in paper #10 regarding the Takematsu (6,207,263) reference of record have been considered but are most since the rejection has been withdrawn.

Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (703) 305-1139. The Examiner can normally be reached on Monday through Thursday from 8:00 a.m. to 5:00 p.m. The Examiner can also be reached on alternate Fridays

If attempts to reach the Examiner are unsuccessful, the Examiner's supervisor, Harold Pyon can be reached by dialing (703) 308-4251. The fax phone number for the organization official non-final papers is (703) 872-9310. The fax number for after final papers is (703) 872-9311.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose phone number is (703) 308-0661.

ac

10/30/02

HAROLD PYÓN

SUPERVISORY PATENT EXAMINER